

Kyle J Bibby

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

11,206
citations

38742

50
h-index

34986

98
g-index

126
all docs

126
docs citations

126
times ranked

11043
citing authors

#	ARTICLE	IF	CITATIONS
1	First confirmed detection of SARS-CoV-2 in untreated wastewater in Australia: A proof of concept for the wastewater surveillance of COVID-19 in the community. <i>Science of the Total Environment</i> , 2020, 728, 138764.	8.0	1,393
2	SARS-CoV-2 in wastewater: State of the knowledge and research needs. <i>Science of the Total Environment</i> , 2020, 739, 139076.	8.0	599
3	Comparison of virus concentration methods for the RT-qPCR-based recovery of murine hepatitis virus, a surrogate for SARS-CoV-2 from untreated wastewater. <i>Science of the Total Environment</i> , 2020, 739, 139960.	8.0	405
4	Human Occupancy as a Source of Indoor Airborne Bacteria. <i>PLoS ONE</i> , 2012, 7, e34867.	2.5	404
5	COVID-19 surveillance in Southeastern Virginia using wastewater-based epidemiology. <i>Water Research</i> , 2020, 186, 116296.	11.3	373
6	Viruses in the Built Environment (VIBE) meeting report. <i>Microbiome</i> , 2020, 8, 1.	11.1	345
7	Wastewater-Based Epidemiology: Global Collaborative to Maximize Contributions in the Fight Against COVID-19. <i>Environmental Science & Technology</i> , 2020, 54, 7754-7757.	10.0	337
8	Persistence of SARS-CoV-2 in Water and Wastewater. <i>Environmental Science and Technology Letters</i> , 2020, 7, 937-942.	8.7	318
9	Identification of Viral Pathogen Diversity in Sewage Sludge by Metagenome Analysis. <i>Environmental Science & Technology</i> , 2013, 47, 1945-1951.	10.0	301
10	Decay of SARS-CoV-2 and surrogate murine hepatitis virus RNA in untreated wastewater to inform application in wastewater-based epidemiology. <i>Environmental Research</i> , 2020, 191, 110092.	7.5	285
11	Transcriptome sequencing and annotation of the microalgae <i>Dunaliella tertiolecta</i> : Pathway description and gene discovery for production of next-generation biofuels. <i>BMC Genomics</i> , 2011, 12, 148.	2.8	258
12	Intestinal Interleukin-17 Receptor Signaling Mediates Reciprocal Control of the Gut Microbiota and Autoimmune Inflammation. <i>Immunity</i> , 2016, 44, 659-671.	14.3	256
13	Quantitative CrAssphage PCR Assays for Human Fecal Pollution Measurement. <i>Environmental Science & Technology</i> , 2017, 51, 9146-9154.	10.0	236
14	SARS-CoV-2 RNA monitoring in wastewater as a potential early warning system for COVID-19 transmission in the community: A temporal case study. <i>Science of the Total Environment</i> , 2021, 761, 144216.	8.0	218
15	Particle-size distributions and seasonal diversity of allergenic and pathogenic fungi in outdoor air. <i>ISME Journal</i> , 2012, 6, 1801-1811.	9.8	211
16	Rethinking wastewater risks and monitoring in light of the COVID-19 pandemic. <i>Nature Sustainability</i> , 2020, 3, 981-990.	23.7	195
17	Convergent development of anodic bacterial communities in microbial fuel cells. <i>ISME Journal</i> , 2012, 6, 2002-2013.	9.8	190
18	Global phylogeography and ancient evolution of the widespread human gut virus crAssphage. <i>Nature Microbiology</i> , 2019, 4, 1727-1736.	13.3	184

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19	Evaluation of Phi6 Persistence and Suitability as an Enveloped Virus Surrogate. <i>Environmental Science & Technology</i> , 2017, 51, 8692-8700.	10.0	157
20	Minimizing errors in RT-PCR detection and quantification of SARS-CoV-2 RNA for wastewater surveillance. <i>Science of the Total Environment</i> , 2022, 805, 149877.	8.0	153
21	Microbial Community Changes in Hydraulic Fracturing Fluids and Produced Water from Shale Gas Extraction. <i>Environmental Science & Technology</i> , 2013, 47, 13141-13150.	10.0	149
22	Detection of SARS-CoV-2 RNA in commercial passenger aircraft and cruise ship wastewater: a surveillance tool for assessing the presence of COVID-19 infected travellers. <i>Journal of Travel Medicine</i> , 2020, 27, .	3.0	146
23	Ten questions concerning the microbiomes of buildings. <i>Building and Environment</i> , 2016, 109, 224-234.	6.9	143
24	Pyrosequencing of the 16S rRNA gene to reveal bacterial pathogen diversity in biosolids. <i>Water Research</i> , 2010, 44, 4252-4260.	11.3	137
25	Surveillance of SARS-CoV-2 RNA in wastewater: Methods optimization and quality control are crucial for generating reliable public health information. <i>Current Opinion in Environmental Science and Health</i> , 2020, 17, 82-93.	4.1	126
26	Pulmonary Th17 Antifungal Immunity Is Regulated by the Gut Microbiome. <i>Journal of Immunology</i> , 2016, 197, 97-107.	0.8	108
27	Application of enteric viruses for fecal pollution source tracking in environmental waters. <i>Environment International</i> , 2012, 45, 151-164.	10.0	105
28	<i>Lactobacillus rhamnosus</i> HN001 decreases the severity of necrotizing enterocolitis in neonatal mice and preterm piglets: evidence in mice for a role of TLR9. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 306, G1021-G1032.	3.4	103
29	Toward a Consensus View on the Infectious Risks Associated with Land Application of Sewage Sludge. <i>Environmental Science & Technology</i> , 2011, 45, 5459-5469.	10.0	100
30	Viral metagenome analysis to guide human pathogen monitoring in environmental samples. <i>Letters in Applied Microbiology</i> , 2011, 52, 386-392.	2.2	90
31	Arsenic induces structural and compositional colonic microbiome change and promotes host nitrogen and amino acid metabolism. <i>Toxicology and Applied Pharmacology</i> , 2015, 289, 397-408.	2.8	89
32	Making waves: Plausible lead time for wastewater based epidemiology as an early warning system for COVID-19. <i>Water Research</i> , 2021, 202, 117438.	11.3	85
33	Metagenomic Evaluation of the Highly Abundant Human Gut Bacteriophage CrAssphage for Source Tracking of Human Fecal Pollution. <i>Environmental Science and Technology Letters</i> , 2014, 1, 405-409.	8.7	80
34	Correlation of crAssphage qPCR Markers with Culturable and Molecular Indicators of Human Fecal Pollution in an Impacted Urban Watershed. <i>Environmental Science & Technology</i> , 2018, 52, 7505-7512.	10.0	79
35	Suppression of methanogenesis in cellulose-fed microbial fuel cells in relation to performance, metabolite formation, and microbial population. <i>Bioresource Technology</i> , 2013, 129, 281-288.	9.6	77
36	SARS-CoV-2 Wastewater Surveillance for Public Health Action. <i>Emerging Infectious Diseases</i> , 2021, 27, 1-8.	4.3	73

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37	Intraday variability of indicator and pathogenic viruses in 1-h and 24-h composite wastewater samples: Implications for wastewater-based epidemiology. <i>Environmental Research</i> , 2021, 193, 110531.	7.5	72
38	Persistence of Ebola Virus in Sterilized Wastewater. <i>Environmental Science and Technology Letters</i> , 2015, 2, 245-249.	8.7	71
39	Metagenomic identification of viral pathogens. <i>Trends in Biotechnology</i> , 2013, 31, 275-279.	9.3	69
40	Produced Water Exposure Alters Bacterial Response to Biocides. <i>Environmental Science & Technology</i> , 2014, 48, 13001-13009.	10.0	68
41	Variability in RT-qPCR assay parameters indicates unreliable SARS-CoV-2 RNA quantification for wastewater surveillance. <i>Water Research</i> , 2021, 203, 117516.	11.3	68
42	Efflux as a Glutaraldehyde Resistance Mechanism in <i>Pseudomonas fluorescens</i> and <i>Pseudomonas aeruginosa</i> Biofilms. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 3433-3440.	3.2	64
43	Predominance and Metabolic Potential of Halanaerobium spp. in Produced Water from Hydraulically Fractured Marcellus Shale Wells. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	64
44	Impacts of Pristine and Transformed Ag and Cu Engineered Nanomaterials on Surficial Sediment Microbial Communities Appear Short-Lived. <i>Environmental Science & Technology</i> , 2016, 50, 2641-2651.	10.0	63
45	Shift in the Microbial Ecology of a Hospital Hot Water System following the Introduction of an On-Site Monochloramine Disinfection System. <i>PLoS ONE</i> , 2014, 9, e102679.	2.5	62
46	Fungal High-throughput Taxonomic Identification tool for use with Next-Generation Sequencing (FHiTINGS). <i>Journal of Basic Microbiology</i> , 2014, 54, 315-321.	3.3	60
47	Contribution of SARS-CoV-2 RNA shedding routes to RNA loads in wastewater. <i>Science of the Total Environment</i> , 2022, 806, 150376.	8.0	60
48	Ebola Virus Persistence in the Environment: State of the Knowledge and Research Needs. <i>Environmental Science and Technology Letters</i> , 2015, 2, 2-6.	8.7	58
49	Microbial Mats as a Biological Treatment Approach for Saline Wastewaters: The Case of Produced Water from Hydraulic Fracturing. <i>Environmental Science & Technology</i> , 2015, 49, 6172-6180.	10.0	54
50	Comparative fate of CrAssphage with culturable and molecular fecal pollution indicators during activated sludge wastewater treatment. <i>Environment International</i> , 2020, 136, 105452.	10.0	52
51	The Functional Potential of Microbial Communities in Hydraulic Fracturing Source Water and Produced Water from Natural Gas Extraction Characterized by Metagenomic Sequencing. <i>PLoS ONE</i> , 2014, 9, e107682.	2.5	51
52	Challenges of studying viral aerosol metagenomics and communities in comparison with bacterial and fungal aerosols. <i>FEMS Microbiology Letters</i> , 2014, 357, 1-9.	1.8	51
53	Metagenomics and the development of viral water quality tools. <i>Npj Clean Water</i> , 2019, 2, .	8.0	51
54	Comparison of RT-qPCR and RT-dPCR Platforms for the Trace Detection of SARS-CoV-2 RNA in Wastewater. <i>ACS ES&T Water</i> , 2022, 2, 1871-1880.	4.6	51

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55	Frontier review on the propensity and repercussion of SARS-CoV-2 migration to aquatic environment. <i>Journal of Hazardous Materials Letters</i> , 2020, 1, 100001.	3.6	49
56	Free chlorine and monochloramine inactivation kinetics of <i>Aspergillus</i> and <i>Penicillium</i> in drinking water. <i>Water Research</i> , 2017, 120, 265-271.	11.3	48
57	Environmental sources of community-acquired legionnairesâ€™ disease: A review. <i>International Journal of Hygiene and Environmental Health</i> , 2018, 221, 764-774.	4.3	48
58	Seasonal Dynamics of the Airborne Bacterial Community and Selected Viruses in a Childrenâ€™s Daycare Center. <i>PLoS ONE</i> , 2016, 11, e0151004.	2.5	46
59	Geochemical and Temporal Influences on the Enrichment of Acidophilic Iron-Oxidizing Bacterial Communities. <i>Applied and Environmental Microbiology</i> , 2016, 82, 3611-3621.	3.1	46
60	Co-Occurrence of crAssphage with Antibiotic Resistance Genes in an Impacted Urban Watershed. <i>Environmental Science and Technology Letters</i> , 2019, 6, 216-221.	8.7	46
61	Wastewater Surveillance during Mass COVID-19 Vaccination on a College Campus. <i>Environmental Science and Technology Letters</i> , 2021, 8, 792-798.	8.7	45
62	Within- and between-Day Variability of SARS-CoV-2 RNA in Municipal Wastewater during Periods of Varying COVID-19 Prevalence and Positivity. <i>ACS ES&T Water</i> , 2021, 1, 2097-2108.	4.6	45
63	Wastewater-based epidemiological surveillance to monitor the prevalence of SARS-CoV-2 in developing countries with onsite sanitation facilities. <i>Environmental Pollution</i> , 2022, 311, 119679.	7.5	42
64	Metatranscriptome analysis of active microbial communities in produced water samples from the Marcellus Shale. <i>Microbial Ecology</i> , 2016, 72, 571-581.	2.8	41
65	Quantitative Microbial Risk Assessment of Swimming in Sewage Impacted Waters Using CrAssphage and Pepper Mild Mottle Virus in a Customizable Model. <i>Environmental Science and Technology Letters</i> , 2019, 6, 571-577.	8.7	41
66	CrAssphage abundance and correlation with molecular viral markers in Italian wastewater. <i>Water Research</i> , 2020, 184, 116161.	11.3	41
67	Cross-assembly phage and pepper mild mottle virus as viral water quality monitoring toolsâ€™ potential, research gaps, and way forward. <i>Current Opinion in Environmental Science and Health</i> , 2020, 16, 54-61.	4.1	40
68	New Directions: A revolution in DNA sequencing now allows for the meaningful integration of biology with aerosol science. <i>Atmospheric Environment</i> , 2011, 45, 1896-1897.	4.1	36
69	Fungal diversity and presence of potentially pathogenic fungi in a hospital hot water system treated with on-site monochloramine. <i>Water Research</i> , 2015, 71, 197-206.	11.3	35
70	Centralized Drinking Water Treatment Operations Shape Bacterial and Fungal Community Structure. <i>Environmental Science & Technology</i> , 2017, 51, 7648-7657.	10.0	35
71	Critical issues in application of molecular methods to environmental virology. <i>Journal of Virological Methods</i> , 2019, 266, 11-24.	2.1	35
72	Indoor Dust as a Matrix for Surveillance of COVID-19. <i>MSystems</i> , 2021, 6, .	3.8	35

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73	Intestinal epithelial Toll-like receptor 4 prevents metabolic syndrome by regulating interactions between microbes and intestinal epithelial cells in mice. <i>Mucosal Immunology</i> , 2018, 11, 727-740.	6.0	34
74	Standardizing data reporting in the research community to enhance the utility of open data for SARS-CoV-2 wastewater surveillance. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 1545-1551.	2.4	34
75	Building-level wastewater surveillance using tampon swabs and RT-LAMP for rapid SARS-CoV-2 RNA detection. <i>Environmental Science: Water Research and Technology</i> , 2021, 8, 173-183.	2.4	31
76	Seasonal dynamics of DNA and RNA viral bioaerosol communities in a daycare center. <i>Microbiome</i> , 2019, 7, 53.	11.1	30
77	Sodium hypochlorite disinfection of SARS-CoV-2 spiked in water and municipal wastewater. <i>Science of the Total Environment</i> , 2022, 807, 150766.	8.0	29
78	Microbial communities in Bakken region produced water. <i>FEMS Microbiology Letters</i> , 2018, 365, .	1.8	27
79	Communicating the promise, risks, and ethics of large-scale, open space microbiome and metagenome research. <i>Microbiome</i> , 2017, 5, 132.	11.1	26
80	Bioreactors for low-pH iron(II) oxidation remove considerable amounts of total iron. <i>RSC Advances</i> , 2017, 7, 35962-35972.	3.6	25
81	Risks from <i>Ebolavirus</i> Discharge from Hospitals to Sewer Workers. <i>Water Environment Research</i> , 2017, 89, 357-368.	2.7	25
82	Suggested Reporting Parameters for Investigations of Wastewater from Unconventional Shale Gas Extraction. <i>Environmental Science & Technology</i> , 2013, 47, 13220-13221.	10.0	24
83	Clustering of fungal community internal transcribed spacer sequence data obscures taxonomic diversity. <i>Environmental Microbiology</i> , 2014, 16, 2491-2500.	3.8	24
84	Characterization and biological removal of organic compounds from hydraulic fracturing produced water. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 279-290.	3.5	24
85	Persistence of emerging viral fecal indicators in large-scale freshwater mesocosms. <i>Water Research X</i> , 2020, 9, 100067.	6.1	24
86	Differentiating between the possibility and probability of SARS-CoV-2 transmission associated with wastewater: empirical evidence is needed to substantiate risk. <i>FEMS Microbes</i> , 2021, 2, .	2.1	24
87	Prevalence of respiratory adenovirus species B and C in sewage sludge. <i>Environmental Sciences: Processes and Impacts</i> , 2013, 15, 336-338.	3.5	23
88	Improved Bacteriophage Genome Data is Necessary for Integrating Viral and Bacterial Ecology. <i>Microbial Ecology</i> , 2014, 67, 242-244.	2.8	23
89	Using C-Doping to Identify Photocatalytic Properties of Graphitic Carbon Nitride That Govern Antibacterial Efficacy. <i>ACS ES&T Water</i> , 2021, 1, 269-280.	4.6	23
90	Thermodynamic Controls on the Kinetics of Microbial Low-pH Fe(II) Oxidation. <i>Environmental Science & Technology</i> , 2014, 48, 9246-9254.	10.0	22

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91	Efficient Low-pH Iron Removal by a Microbial Iron Oxide Mound Ecosystem at Scalp Level Run. Applied and Environmental Microbiology, 2017, 83, .	3.1	20
92	Disinfection of Ebola Virus in Sterilized Municipal Wastewater. PLoS Neglected Tropical Diseases, 2017, 11, e0005299.	3.0	20
93	Implications of SARS-CoV-2 on current and future operation and management of wastewater systems. Water Environment Research, 2021, 93, 502-515.	2.7	18
94	Assessing and managing SARS-CoV-2 occupational health risk to workers handling residuals and biosolids. Science of the Total Environment, 2021, 774, 145732.	8.0	17
95	Inferring SARS-CoV-2 RNA shedding into wastewater relative to the time of infection. Epidemiology and Infection, 2022, 150, e21.	2.1	17
96	Nitrogen Removal from Wastewater Using a Hybrid Membrane-Biofilm Process: Pilot-Scale Studies. Water Environment Research, 2010, 82, 195-201.	2.7	16
97	Glutaraldehyde inhibits biological treatment of organic additives in hydraulic fracturing produced water. Science of the Total Environment, 2019, 666, 1161-1168.	8.0	16
98	Identification accuracy and diversity reproducibility associated with internal transcribed spacer-based fungal taxonomic library preparation. Environmental Microbiology, 2014, 16, 2764-2776.	3.8	14
99	Insights into microbial community structure and function from a shallow, simulated CO ₂ leakage aquifer demonstrate microbial selection and adaptation. Environmental Microbiology Reports, 2019, 11, 338-351.	2.4	14
100	Research Needs for Wastewater Handling in Virus Outbreak Response. Environmental Science & Technology, 2017, 51, 2534-2535.	10.0	12
101	The Effects of Sample Storage Conditions on the Microbial Community Composition in Hydraulic Fracturing Produced Water. Geomicrobiology Journal, 2019, 36, 630-638.	2.0	10
102	Letter to the Editor regarding Mathavarajah et al. (2020) Pandemic danger to the deep: The risk of marine mammals contracting SARS-CoV-2 from wastewater. Science of the Total Environment, 2021, 773, 144855.	8.0	9
103	Editorial Perspectives: will SARS-CoV-2 reset public health requirements in the water industry? Integrating lessons of the past and emerging research. Environmental Science: Water Research and Technology, 2020, 6, 1761-1764.	2.4	8
104	Biogeochemistry of the Antrim Shale Natural Gas Reservoir. ACS Earth and Space Chemistry, 2021, 5, 1752-1761.	2.7	8
105	Quantitative risk assessment of COVID-19 aerosol transmission indoors: a mechanistic stochastic web application. Environmental Technology (United Kingdom), 2023, 44, 1201-1212.	2.2	8
106	Quantitative microbial risk assessment of outdoor aerosolized pathogens in cities with poor sanitation. Science of the Total Environment, 2022, 827, 154233.	8.0	8
107	From commensalism to mutualism: integrating the microbial ecology, building science, and indoor air communities to advance research on the indoor microbiome. Indoor Air, 2015, 25, 1-3.	4.3	7
108	Upregulation of peroxide scavenging enzymes and multidrug efflux proteins highlight an active sodium hypochlorite response in <i>Pseudomonas fluorescens</i> biofilms. Biofouling, 2019, 35, 329-339.	2.2	7

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109	Bacterial community structure correlates with <i>Legionella pneumophila</i> colonization of New York City high rise building premises plumbing systems. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 1324-1335.	2.4	6
110	Persistence of viable MS2 and Phi6 bacteriophages on carpet and dust. <i>Indoor Air</i> , 2022, 32, .	4.3	6
111	Draft Genome Sequence of <i>Methanohalophilus mahii</i> Strain DAL1 Reconstructed from a Hydraulic Fracturing-Produced Water Metagenome. <i>Genome Announcements</i> , 2016, 4, .	0.8	4
112	Response to Comment on "Ebola Virus Persistence in the Environment: State of the Knowledge and Research Needs" <i>Environmental Science and Technology Letters</i> , 2015, 2, 50-51.	8.7	3
113	Draft Genome Sequence of <i>Pseudomonas</i> sp. BDAL1 Reconstructed from a Bakken Shale Hydraulic Fracturing-Produced Water Storage Tank Metagenome. <i>Genome Announcements</i> , 2017, 5, .	0.8	3
114	Impact of Disaster Research on the Development of Early Career Researchers: Lessons Learned from the Wastewater Monitoring Pandemic Response Efforts. <i>Environmental Science & Technology</i> , 2022, 56, 4724-4727.	10.0	1
115	The Hybrid Membrane Biofilm Process for TN Removal from Wastewater: Bench and Pilot Scale Studies. , 2008, , .		0
116	Next-Generation DNA Sequencing Identifies Pathogens in Biosolids. <i>Proceedings of the Water Environment Federation</i> , 2010, 2010, 5606-5613.	0.0	0